Amendments to the Claims

Please add new claims 28 and 29 as indicated below. For Examiner convenience, all claims are listed below. This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (Original) An application programming interface (API) for enhancing data network communication, comprising:

an identify address function including programming instructions for identifying a stored node address stored by a base driver for a network interface associated with the base driver; and

an update node address function including programming instructions for directing the base driver to update the stored node address with a new node address in a configuration storage of the base driver, and in a receive address filtering table for the network interface.

2. (Original) The API of claim 1, wherein the identify address function includes submitting a request to the base driver, to which is received a response including the node address stored by the base driver.

3. (Original) The API of claim 1, wherein the identify address function includes programming instructions for inspecting the configuration storage of the base driver, such storage having an entry identifying the stored node address.

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1	4.	(Previously F	Presented)	An API according to claim 1, further
2	comprising:			
3	a driv	er identificatio	n function inc	cluding programming instructions for sending an
4	identity-ched	ck request to t	he base drive	r, said base driver providing a response selected
5	from a group	consisting of	: a predetern	nined identifier, a base driver revision number,
6	and an iden	tification of a v	endor of the	base driver.
7				
8	5.	(Original)	An API acco	ording to claim 4, wherein the predetermined
9	identifier is a	a copyright stri	ng for the vei	ndor of the base driver.
10				
11	6.	(Original)	An article of	manufacture, comprising a computer readable
12	medium hav	ring encoded t	hereon progra	amming instructions capable of directing a
13	processor to	perform oper	ations of:	
14	an ide	entify address	function for i	dentifying a stored node address stored by a
15	base driver	for a network i	nterface asso	ociated with the base driver; and
16	an up	odate node ad	dress functior	for directing the base driver to update the
17	stored node	address with	a new node a	ddress in a configuration storage of the base
18	driver, and i	n a receive ad	dress filtering	table for the network interface.
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20	7.	(Original)	An API acco	ording to claim 1, further comprising:
21	a firs	t transmission	function inclu	ding programming instructions for re-transmitting

data, received in a compatible format from a network source, in an incompatible format

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to a network destination; and

1	a second transmission function including programming instructions for re-				
2	transmitting data, received in the incompatible format from the network destination, in				
3	the compatible format to the network source.				
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5	8. (Original) An API according to claim 7, further comprising:				
6	a report capabilities function including programming instructions for sending the				
7	base driver a request to have the base driver report its capabilities;				
8	a receive capabilities function including programming instructions for receiving a				
9	response including said capabilities;				
10	wherein the incompatible format is formatted according to said capabilities.				
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12	9. (Original) An API according to claim 7, further comprising:				
13	a virtual LAN function including programming instructions to direct the base driver				
14	to enter a desired virtual LAN operative state; and				
15	a disconnect function including programming instructions to notify the base driver				
16	that the API has concluded communications with the base driver.				
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18	10. (Canceled)				
19					
20	11. (Original) An API according to claim 1 for providing transparent fail-				
21	over from a first network interface to a second network interface, further comprising:				
22	a status function including programming instructions for polling a first base driver				
23	for the first network interface to detect a failure of said first network interface:				

wherein the update node address function includes a function to direct a second 1 base driver for the second network interface to store the node address of the first 2 network interface as the stored node address for the second base driver. 3 4 An API according to claim 11, in which a Novell ODI 12. (Original) 5 compliant network is utilized for network communication, and wherein the update node 6 address function uses at least one ODI MLID Control Routine. 7 8 9 13. (Previously Presented) An article of manufacture, comprising a computer readable medium having encoded thereon instructions to direct a processor to 10 11 perform an API having: an identify address function for identifying a stored node address stored by a 12 base driver for a network interface associated with the base driver; 13 an update node address function for directing the base driver to update the 14 stored node address with a new node address; 15

interface to detect a failure of the first network interface; and a failover function to direct a second base driver for the second network interface

a status function in communication with a first base driver for the first network

to store the node address of the first network interface as the stored node address for the second base driver, and to store the node address of the first network interface in a

receive address filtering table for the second network interface.

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1	14. (Original) An API according to claim 1 for providing transparent load
2	balancing of data transmissions directed towards the network interface by distributing
3	such data across a second network interface, further comprising:
4	a queue monitoring function including programming instructions for detecting a
5	workload of the first network interface; and
6	a distribution function including programming instructions for routing a portion of
7	said data transmissions through the second network interface, said distribution function
8	utilizing the update node address function to associate the node identifier of the first
9	network interface with the second network interface.
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11	15. (Previously Presented) A networking method, comprising:
12	receiving first network traffic with a protocol stack;
13	sending said first traffic to an intermediary layer;
14	routing said first traffic to a virtual interface driver;
15	repackaging said first traffic by the virtual interface driver, and providing said
16	repackaged traffic to a virtual protocol stack;
17	sending said repackaged traffic to the intermediary layer;
18	routing said repackaged traffic by the intermediary layer to an interface driver for
19	a network interface having a node address memory;
20	identifying a failed network interface having a node address; and
21	storing the node address in the node address memory.

1	16. (Previously Presented) A method according to claim 15, further				
2	comprising:				
3	routing network traffic for the failed network interface through the fail over				
4	network interface.				
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6	17. (Original) A method according to claim 16, further comprising:				
7	wherein said first network traffic is received in a first protocol format, and said				
8	repackaged traffic is in a second network protocol format different from the first protocol				
9	format.				
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11	18. (Previously Presented) A method according to claim 16, wherein locating				
12	the fail over network interface comprises:				
13	submitting a node identification request to a base driver for a potential fail over				
14	network interface; and				
15	receiving a response from said driver, said response including an authentication				
16	string;				
17	verifying said authentication string has a predetermined value before said				
18	potential fail over network interface is used as the fail over network interface.				
19					
20	19. (Previously Presented) An article of manufacture, comprising a				
21	computer readable medium having encoded thereon instructions to direct a processor to				
22	perform the operations of:				

receiving first network traffic with a protocol stack;

l	sending said first traffic to an intermediary layer;				
2	routing said first traffic to a virtual interface driver;				
3	repackaging said first traffic by the virtual interface driver, and providing said				
4	repackaged traffic to a virtual protocol stack;				
5	sending said repackaged traffic to the intermediary layer;				
6	routing said repackaged traffic by the intermediary layer to an interface driver for				
7	a network interface having a node address memory;				
8	identifying a failed network interface having a node address; and				
9	storing the node address in the node address memory.				
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11	20. (Original) A method for redundant networking in a network				
12	environment, comprising:				
13	determining operative status of a first network interface having a first driver, and				
14	of a second network interface having a second driver with a driver memory for storing a				
15	MAC address for said second interface;				
16	if the first network interface is inoperative, instructing the second driver to store				
17	the first network interface MAC address in the driver memory to allow processing by the				
18	second network interface of network traffic bound for the first network interface;				
19	directing the second driver to activate the second network interface; and				
20	directing the first driver to deactivate the first network interface.				
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1	21. (Original) A method according to claim 20, in which the network				
2	environment is a Novell based network, and wherein ODI commands are issued to said				
3	first and second drivers.				
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5	22. (Original) A method according to claim 21, further comprising:				
6	receiving first network traffic by a protocol stack;				
7	forwarding said first network traffic to a LSL;				
8	routing said first network traffic from the LSL to a virtual MLID, and deriving				
9	second network traffic from said first network traffic;				
10	providing said second network traffic to a virtual protocol stack; and				
11	forwarding said second network traffic to the LSL.				
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13	2325. (Canceled)				
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15	26. (Original) A system, comprising:				
16	means for identifying a stored node address stored by a base driver for a network				
17	interface associated with the base driver; and				
18	means for directing the base driver to update the stored node address with a new				
19	node address.				
20					
21	27. (Original) A system according to claim 26, further comprising:				
22	means for re-transmitting data, received in a first format from a network source,				
23	in a second format to a network destination; and				

means for re-transmitting data, received in the second format from the network destination, in the first format to the network source.

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28. (New) An method for enhancing data network communication comprising:
receiving network traffic for a network interface having a first node address;
updating a stored node address stored in a receive address filtering table for a
second network interface, and in a base driver for the second network interface, with the
first node address; and

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routing the received network traffic to the second network interface.

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29. (New) The method of claim 28, wherein said receiving network traffic is performed by an intermediary configured to determine unavailability of the first network interface and automatically update the stored node address of the second network interface filtering table and its base driver so that the second network interface may transparently operate as if it were the first network interface.